

Version with Markings to Show Changes Made:

1. (Once amended) A plurality of laterally varying diodes ~~each comprising an n-collector~~  
region formed on a diode region, wherein each individual diode region has an  
5 ~~independently selectable depth including an ion-implanted portion, and each n-collector~~  
region has a depth extending from the diode region to a contact surface that is co-planar  
~~with the contact surfaces of the other n-collector regions, the plurality of laterally~~  
varying diodes further ~~comprising means for substantially electrically isolating each~~  
individual diode.

**Deleted:** including, in common,

**Deleted:** the

**Deleted:** vng a contact surface  
opposite the diode region and

**Deleted:** the contact surface to

**Deleted:** with each individual diode  
having an independently selectable  
portion of the depth including an ion-  
implanted portion,

**Deleted:** including

10 In regard to Claim 2, which depends from Claim 1, the Examiner noted that Seabaugh  
further discloses a diode region formed as a resonant tunneling diode region. The  
Applicant believes that the amendments to Claim 1 clarifies the invention and renders  
Claim 2 allowable.

CLOSING REMARKS:

Applicant respectfully submits, in light of the above amendments and remarks, that  
20 Claims 1 and 2 are now in allowable condition. Applicant thus respectfully requests  
timely allowance of the pending claims.

In the event the Examiner wishes to discuss any aspect of this response, or believes that a conversation with either the Applicant or Applicant's representative would be beneficial the Examiner is encouraged contact the undersigned at the telephone number indicated  
5 below.

Respectfully submitted,



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